

Julien Dominski

List of Publications by Year in descending order

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701
citing authors

#	ARTICLE	IF	CITATIONS
1	The Exascale Framework for High Fidelity coupled Simulations (EFFIS): Enabling whole device modeling in fusion science. International Journal of High Performance Computing Applications, 2022, 36, 106-128.	3.7	11
2	Toward the core-edge coupling of delta-f and total-f gyrokinetic models. Physics of Plasmas, 2022, 29, 032301.	1.9	1
3	First coupled GENE-XGC microturbulence simulations. Physics of Plasmas, 2021, 28, 012303.	1.9	9
4	Spatial coupling of gyrokinetic simulations, a generalized scheme based on first-principles. Physics of Plasmas, 2021, 28, .	1.9	12
5	Transition of a network of nonlinear interactions into a regime of strong nonlinear fluctuations: A paradigm for the edge localized mode onset. Physics of Plasmas, 2021, 28, .	1.9	4
6	Orb5: A global electromagnetic gyrokinetic code using the PIC approach in toroidal geometry. Computer Physics Communications, 2020, 251, 107072.	7.5	66
7	How eigenmode self-interaction affects zonal flows and convergence of tokamak core turbulence with toroidal system size. Journal of Plasma Physics, 2020, 86, .	2.1	13
8	Nonlinear global gyrokinetic delta-f turbulence simulations in a quasi-axisymmetric stellarator. Physics of Plasmas, 2020, 27, .	1.9	12
9	Identification of a network of nonlinear interactions as a mechanism triggering the onset of edge localized modes. Plasma Physics and Controlled Fusion, 2020, 62, 095011.	2.1	6
10	Spatial core-edge coupling of the particle-in-cell gyrokinetic codes GEM and XGC. Physics of Plasmas, 2020, 27, 122510.	1.9	10
11	Study of up-down poloidal density asymmetry of high-impurities with the new impurity version of XGCa. Journal of Plasma Physics, 2019, 85, .	2.1	10
12	Verification of the global gyrokinetic stellarator code XGC-S for linear ion temperature gradient driven modes. Physics of Plasmas, 2019, 26, .	1.9	15
13	Tokamak parameter regimes with low toroidal momentum diffusivity. Journal of Plasma Physics, 2019, 85, .	2.1	1
14	Scalable Performance Awareness for In Situ Scientific Applications. , 2019, , .		0
15	A Co-Design Study Of Fusion Whole Device Modeling Using Code Coupling. , 2019, , .		2
16	Cross-verification of neoclassical transport solutions from XGCa against NEO. Physics of Plasmas, 2019, 26, .	1.9	7
17	ContourNet: Salient Local Contour Identification for Blob Detection in Plasma Fusion Simulation Data. Lecture Notes in Computer Science, 2019, , 289-301.	1.3	0
18	Investigating the radial structure of axisymmetric fluctuations in the TCV tokamak with local and global gyrokinetic GENE simulations. Plasma Physics and Controlled Fusion, 2018, 60, 034003.	2.1	14

#	ARTICLE	IF	CITATIONS
19	Identifying microturbulence regimes in a TCV discharge making use of physical constraints on particle and heat fluxes. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	15
20	Coupling Exascale Multiphysics Applications: Methods and Lessons Learned. , 2018, , .		20
21	In Situ Analysis and Visualization of Fusion Simulations: Lessons Learned. <i>Lecture Notes in Computer Science</i> , 2018, , 230-242.	1.3	2
22	Direct Observation of Nonlinear Coupling between Pedestal Modes Leading to the Onset of Edge Localized Modes. <i>Physical Review Letters</i> , 2018, 121, 235001.	7.8	28
23	Gyroaveraging operations using adaptive matrix operators. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	7
24	A tight-coupling scheme sharing minimum information across a spatial interface between gyrokinetic turbulence codes. <i>Physics of Plasmas</i> , 2018, 25, 072308.	1.9	17
25	Cross-verification of the global gyrokinetic codes GENE and XGC. <i>Physics of Plasmas</i> , 2018, 25, 062308.	1.9	26
26	An arbitrary wavelength solver for global gyrokinetic simulations. Application to the study of fine radial structures on microturbulence due to non-adiabatic passing electron dynamics. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	23
27	Pedestal and edge electrostatic turbulence characteristics from an XGC1 gyrokinetic simulation. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 105014.	2.1	28
28	PadÃ© approximation of the adiabatic electron contribution to the gyrokinetic quasi-neutrality equation in the ORB5 code. <i>Journal of Physics: Conference Series</i> , 2016, 775, 012006.	0.4	9
29	How non-adiabatic passing electron layers of linear microinstabilities affect turbulent transport. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	31
30	Complete multi-field characterization of the geodesic acoustic mode in the TCV tokamak. <i>Plasma Physics and Controlled Fusion</i> , 2014, 56, 072001.	2.1	65
31	Turbulence and zonal flow structures in the core and L-mode pedestal of tokamak plasmas. <i>Journal of Physics: Conference Series</i> , 2014, 561, 012022.	0.4	5
32	Identifying the role of non-adiabatic passing electrons in ITG/TEM microturbulence by comparing fully kinetic and hybrid electron simulations. <i>Journal of Physics: Conference Series</i> , 2012, 401, 012006.	0.4	10
33	Potential of a plasma bound between two biased walls. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	9